

FIRE PROTECTION EQUIPMENT



**ELKHART BRASS MANUFACTURING COMPANY
ELKHART-INDIANA**

SPECIFICATION CHECK LIST

with which is included

INDEX TO THIS CATALOG

Cabinets—(Pages 4 and 5)

Plate Number—Specify: Plate number of desired unit.

Construction—(Page 4)—Specify:

Elkhart construction with new one-piece cold rolled hollow door frame.

Hoosier construction of one-piece single thickness door and trim.

Style of Cabinet—(Page 5)—Specify:

Recessed cabinet; Surface type cabinet.

Cabinet Inside Dimensions—Specify inside dimensions indicated under each unit.

Door—(Pages 4 and 5)—Specify: Grille door; D. S. A. glass panel door; Plate glass panel door; Duo panel door; Institutional all-metal door.

Note: Specify: "Fire Hose" in 1½ in. gilt and red letters or gold or silver leaf letters if desired.

Hardware—(Page 4)—Specify:

Bronze concealed hinges; Friction catch or lever handle; Lock if desired (see page 5).

Finish—(Page 4)—Specify:

Standard finish; Elkhart Cabinets baked white enamel inside, prime coat outside; Hoosier Cabinets gray prime coat inside and outside.
Any special finish desired.

Valves—(Pages 7 and 8)

Type of Valve—Specify:

Standard Elkhart angle valve.

Elkhart Underwriters' approved and New York City approved angle valve. (Meets Federal Master Spec. 448.)

Standard Elkhart gate valve.

Style of Valve—(Pages 7 and 8)—Specify:

Plate 20—Double female angle valve to be used with rack supporting nipple.

Plate 25—Female-male angle valve to be used with pipe clamp or wall bracket.

Plate 88—Female-male gate valve.

Plate 89—Double female gate valve.

Weights—(Page 8)—Specify:

Standard or extra heavy for Elkhart standard angle valve or gate valve.

150 or 250 lbs. for Elkhart Underwriters' approved valve.

Size—Specify: 1¼, 1½, 2 and 2½ in. for any of our valves.

Finish—(Page 8)—Specify:

Standard finish rough brass body with polished trim. Polished finish all over.

Nickel, chromium plated or black oxidized finish.

Wheel Handle—(Page 8)—Specify: Standard iron wheel handle; Milled edge brass wheel handle.

Wall Plate—Specify: Stamped brass valve wall plate (indicate finish); Cast brass wall plate (indicate finish).

Note: In units similar to C-920 with fire department Plate 25, 2½ in. angle valve, specify brass cap and chain to protect local fire department threads.

Hose Racks—(Pages 2 and 3)

Type of Rack—Specify:

Elkhart, Plate 41—Underwriters' approved, semi-automatic, for 1¼ and 1½-in. linen hose.

Elkhart, Plate 42—Underwriters' approved, non-automatic, for 2 and 2½-in. linen hose.

Elkhart, Plate 45—Standard covered and swinging rack for any size of hose.

Material—(Page 3)—Specify:

Rack to be of heavy steel with galvanized pins.

Rack to be of solid brass construction throughout.

Capacity—(Page 3)—Specify rack to accommodate 25, 50, 75, 100 or 125 ft. of linen hose.

Method of Attachment—(Page 3)—Specify:

Style N, with either brass or iron supporting nipple.

Style P, with pipe clamp, indicate dimension of pipe.

Style W, with wall bracket.

Style C, with combination wall bracket and escutcheon for use with gate valves.

Finish—(Page 2)—Specify: Aluminum or gold bronze finish; red or black lacquer or enamel; nickel, chromium plated or black oxidized finish.

Special Threads—Specify:

Local fire department thread for all 2½-in. nipples.

Note: Elkhart Plate 45, covered and swinging hose rack meets specifications of New York Board of Standards and Appeals and also Federal Master Specification No. 448, page 17, figure 1.

Linen Hose—

Grade—Specify:

First quality long fibre unlined linen hose, Underwriters' approved.

Second quality "Flax Tow" unlined linen hose, Underwriters' approved.

Note: Only first quality Underwriters' approved unlined linen hose meets Government Specification No. 527.

Sizes—Specify: 1¼, 1½, 2 and 2½ in.

Length—Specify:

25, 50, 75 or 100-ft. lengths in one section.

Hose shall be coupled in sections not to exceed 50 ft. (when required by local ordinance).

Couplings—Specify linen hose to be coupled with respective size of automatic linen hose couplings in any desired finish.

1½ and 2-in. hose may be coupled with 2½-in. reducing couplings for use with 2½-in. valves.

Nozzle—

Size—Specify: Cast brass nozzle, 10 or 12 in. long, same size as hose.

Finish—Specify: Polished brass; nickel, chromium plated or black oxidized finish.

Extinguishers—(Pages 5, 6 and 7)

Types—Specify:

Elkhart 2½-gal. Underwriters' approved soda and acid or foam type fire extinguisher.

Elkhart 1 or 1½-qt. carbon tetrachloride extinguisher—Underwriters' approved.

Finish—Specify: Standard polished copper finish; nickel or chromium plated finish.

Axe—(Page 7)

Weight—Specify:

Standard 4-lb. firemen's axe with pick head.

Six-pound special firemen's axe with pick head.

Finish—Specify: Polished blade, red enamel handle; nickel or chromium plated finish.

Method of Attachment—Specify axes to be supported by Underwriters' brackets.

Spanners—(Page 7)

Size—Specify: 1½ or 2½-in. taper reversible spanner.

Finish—Specify: Galvanized finish; nickel or chromium plated finish.

Method of Attachment—Specify:

Spanner to be supported by Underwriters' bracket.

Spanner to be suspended from valve stem by chain.

Siamese and Wall Hydrant Connections—(Pages 9 and 10)

Type of Siamese or Wall Hydrant—Specify:

Flush type siamese and wall hydrant unit with removable clapper valves.

Old style projecting siamese and wall hydrant unit.

Dimensions—Specify: 2½x2½x4 in.; 2½x2½x6 in.; 3x3x6 in.; 3½x3½x6 in.

Finish—Specify: Polished brass; nickel plated or chromium plated finish.

Thread Protection—Specify: Brass or iron plugs or caps and chains; Easy-off swivel caps.

ELKHART BRASS MFG. COMPANY

Established 1902

**Manufacturers of Inside Fire Protection
ELKHART, INDIANA**

Products

HOSE CABINETS of Bronze, Steel and White Metal.

HOSE RACKS of Brass and Steel.

HOSE, Linen and Cotton Rubber Lined.

VALVES, COUPLINGS and NOZZLES.

EXTINGUISHERS: Foam, Soda Acid and Carbon Tetrachloride.

SIAMESE and HYDRANT CONNECTIONS.

SPANNERS, AXES and all Complementary Equipment.



Reg. U. S.

Pat. Off.

regulations are available and will be furnished free of charge to architects who require them.

Special attention is called to the diagram on page 10 (inside back cover) which presents a typical fire protection system in accordance with the most modern approved practices.

The Company and Its Facilities

For more than thirty years the ELKHART BRASS MFG. COMPANY has been engaged in the development and manufacture of fire fighting equipment. Contacts have been maintained with fire department executives in all parts of the country, and every new development or condition has been closely studied. This company developed the first expansion ring type coupling for unlined linen hose.

As is indicated in connection with the separate items in this catalog, we have worked in conjunction with the National Board of Fire Underwriters and the Factory Mutuals in Boston. A complete and up-to-date file of all federal specifications is maintained by us so that installations where these specifications apply can be checked.

Adequate facilities for handling largest contracts in shortest possible time are maintained in the Elkhart factory, while a complete stock of all standard products listed in this catalog makes possible shipping upon receipt of order.

A photograph of our factory and offices is reproduced upon the back cover of this catalog.

Special Equipment to Specifications

In addition to the standard equipment listed above, illustrated and described on the following pages, special equipment designed for individual conditions is quickly available from our plant. With complete facilities under our own roof, from engineering service on through pattern, foundry, tool and machine departments, we are prepared to deliver special items in a minimum of time and with all the advantages of our thirty years' experience in this field.

Information

The ELKHART BRASS MFG. COMPANY maintains district representatives in many principal cities of the United States and Canada. Special information concerning inside fire protection may be obtained from our representative or the main office at Elkhart, Ind.

Blueprints showing typical siamese installations and riser diagrams, together with a digest of Underwriters'

ELKHART COVERED BRASS AND STEEL HOSE RACKS Swinging Type—With Non-detachable Pins

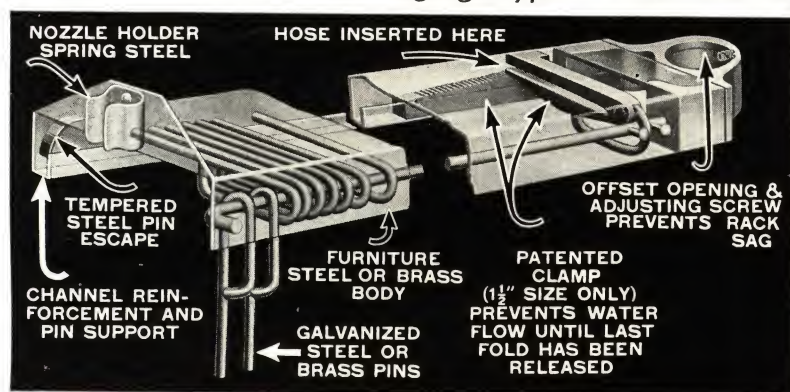


Plate 41

Plate 41 (For 1 1/4 or 1 1/2 in. Linen Hose)

National Board of Fire Underwriters

Factory Mutual

Board of Standard and Appeals, New York, N. Y.

Plate 42 (For 2 and 2 1/2 in. Linen Hose)

National Board of Fire Underwriters

Factory Mutual

Board of Standard and Appeals, New York, N. Y.

Plate 45 (For Any Size Linen Hose)

Board of Standard and Appeals, New York, N. Y.

Factory Mutual

Construction

To the left is a self-explanatory phantom view of our Plate 41 Underwriter approved semi-automatic hose rack.

To assure yourself of its superiority we recommend that you compare it impartially, point for point, with any competitive hose rack.

Carefully thought out in every detail, even to the adjusting screw which prevents loaded racks from sagging, this rack instantly recommends itself to discriminating users.

Our standard Plate 45 hose rack is identical in every respect to the illustration, except that it does not have the patented clamp. For other than Factory Mutual installations.

Finish

Aluminum bronze, gold bronze, or red lacquer are standard finishes. Dead black or white enamel optional. Also finished in nickel, brass, chromium, and flat black plate, solid brass-polished and lacquered, and to any specifications.

Method of Attachment

Style (N)—Supporting nipple, brass or iron, for angle valve.

Style (P)—Pipe clamp.

Style (W)—Wall bracket.

Style (C)—Combination wall bracket and escutcheon for gate valve.

Elkhart Covered Hose Rack, Plate 45

Approved by the Board of Standards and Appeals; also Factory Mutual with semi-automatic feature.

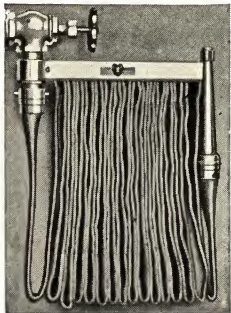
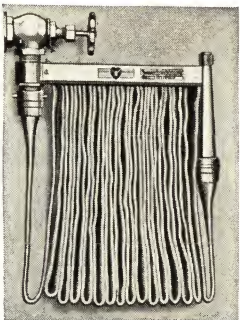


Plate 45

For 1¼, 1½, 2 and 2½-in. linen hose. Plate 45 hose rack is similar in construction to Elkhart Underwriters' racks, Plates 41 and 42, but does not have either the semi-automatic feature or the Underwriters' label. We invite comparison of our covered type of hose rack with other racks of similar appearance. The body, together with the channel for supporting the pins, is formed from one piece of heavy furniture steel, which not only provides a very strong pin support but reinforces the entire rack. The solid top protects the hose from dust and controls its release. We have also given special attention to finish. The result is a handsome and efficient rack, acceptable in all installations where an Underwriters' label is not required.

Elkhart Underwriters' Labeled Hose Racks

Semi-Automatic Hose Rack, Plate 41 (Patented)—Similar in appearance to Plate 45. For 1¼ and 1½-in. unlined linen hose. Rack is sturdily built of one piece of pressed steel fastened to cast back.



Plates 41 and 42

The semi-automatic feature of this rack permits one to open the valve at once in case of fire and drag the hose by the nozzle right to the flames, as the last fold of the hose between clamp holds back 150 lb. water pressure. This feature makes the semi-automatic type of hose rack decidedly superior to non-automatic racks from which the hose must be entirely removed before the valve may be opened, causing a delay in reaching the fire that may prove disastrous.

Another advantage of this type of rack is that nothing serious can happen if the valve is opened accidentally or maliciously. It is therefore the correct type to specify for school and college buildings, etc.

Non-Automatic Hose Rack, Plate 42—For 2 and 2½-in. unlined linen hose. Rack is identical in construction to Plate 41 but without the semi-automatic feature. Fully approved and labeled.

Racks and Reels for Cotton Rubber Lined Hose

For warehouses, factories, maritime improvements, and similar installations, cotton rubber lined hose is recommended. As even treated rubber will crack and vulcanize when abruptly creased, basket racks or reels must be provided in place of covered hose racks. Our

Elk Improved Racks, Plates No. 20-21-22-23, and Swinging Hose Reels, Plates 30 and 31, are fabricated expressly to take care of this need. Fully illustrated in our general catalogue, we anticipate sending you one by return mail in answer to your inquiry.

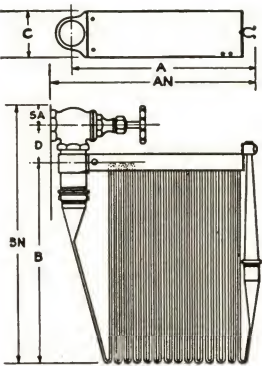
DIMENSIONS OF ELKHART UNDERWRITERS' LABELED AND UNLABELED HOSE RACKS

Plate Nos. 41, 42 and 45 with Standard Weight Valves

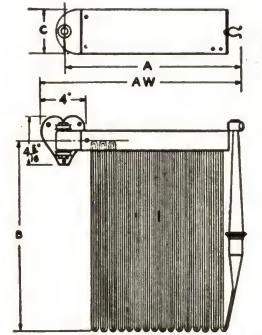
Capacity of rack	Valves and hose, in.	Dimensions shown on diagrams, in inches											
		A	AC	AN	AP	AW	B	BC	BN	C	D	†SA	†SG
50 ft., 15 pins	1¼, 1½	16	19½	18	18½	18	20	32½	26¼	4¼	2¾	2½	7
	2	16½	20	19	19½	18½	20	33½	26½	5¼	3	3	8
	2½*	17	20½	20	20	18½	20	35	27½	6	4	3½	9½
75 ft., 19 pins	1¼, 1½	18	21½	20	20½	20	24	36½	30¼	4¼	2¾	2½	7
	2	18½	22	21	21½	20½	24	37½	30½	5¼	3	3	8
	2½*	19	22½	22	21½	21	24	39	31½	6	4	3½	9½
100 ft., 23 pins	1¼, 1½	20	23½	22	22½	22	26½	39	32¼	4¼	2¾	2½	7
	2	20½	24	23	23½	22½	26½	40	33	5¼	3	3	8
	2½*	21	24½	24	23½	23	26½	41½	34	6	4	3½	9½
125 ft., 24 pins	1¼, 1½	20	23½	22	22½	22	31½	44	37¼	4¼	2¾	2½	7
	2	20½	24	23	23½	22½	31½	45	38	5¼	3	3	8
	2½*	21	24½	24	23½	23	31½	46½	39	6	4	3½	9½

*Special 1½-in. rack with 2½-in. nipple for use with 2½-in. valve and reducing coupling for 1½-in. hose, same dimensions except width C is 4½ in.

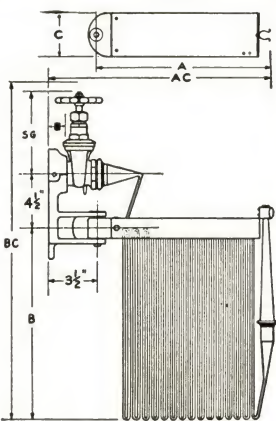
†Dimensions in this table are for standard weight valves only. Complete valve dimensions are shown on page 7.



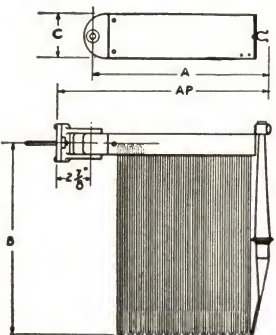
Style N—Nipple Connection



Style W—Wall Bracket



Gate Valve Escutcheon



Style P—Pipe Clamp

ELKHART CONSTRUCTION HOSE CABINETS

New One-piece, Rolled, Hollow Door Frame

Construction

Elkhart Cabinets are made of heavy rust-resisting furniture steel. Door and trim are made from special one-piece hollow rolled tubing. The corners being mitered and electrically butt-welded together, are as strong as a section of the frame itself, while the seams are imperceptible. Compare this one-piece door and frame with other so-called "one-piece tubings" which, in reality, are only two pieces fitted and welded together like a box. The new one-piece frame actually reinforces the glass rather than the glass stiffening the door frame.

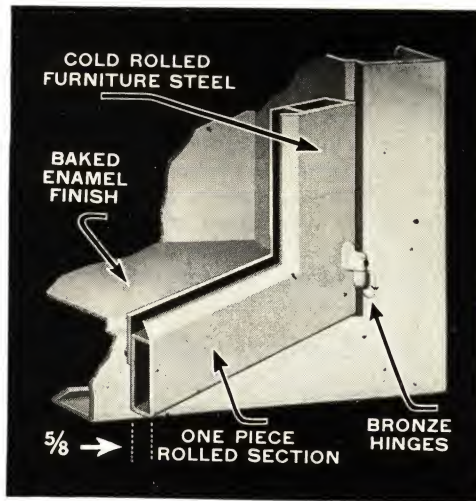
Dust proof construction, concealed bronze hinges, ball and spring catches (or lever handles if desired), polished plate or D.S.A. glass complete this modern fire hose cabinet. Cabinets to any dimension can be furnished on order. Standard dimensions are listed completely under each unit.

Hardware

Bronze Hinges—Bronze hinges of special design are made strong enough to permit a man weighing 200 pounds to swing on the door without breaking or even sagging. They are so anchored that they cannot turn out of place. As these hinges permit the door to be opened a full 180 degrees, unobstructed space is left for rapid removal of hose.

Unlike ordinary butt hinges, the finish is not scraped or marred on them in opening the doors. Nickel plating being unnecessary, they are permanently finished like the rest of the trim which makes them scarcely noticeable.

Friction Catch—The usual friction type catch has a tendency to wear and, in time, partially lose its hold. We have perfected a friction catch of the ball bearing type in which a tempered steel spring exerting pressure against the ball automatically takes up the wear and provides the proper tension at all times. There is nothing out of order and no projecting parts to finish.



Lever Handle—If preferred can be substituted for friction catch.

Finish

As we do not recommend finishing a cabinet all over before it is installed, our standard finish is white baked enamel inside, prime coat outside. Cabinets being of considerable bulk and weight, their finish is invariably damaged either in transit or while installing. The inside of the box, not being exposed, however, can be finished in baked enamel of any specified color.

Whenever a color scheme is to be utilized throughout an entire building, it is desirable for the architect to submit a sample of the respective color or finish. In this way, at a slight additional cost, hose rack installation, including racks and valves, can be cleverly brought into harmony with the decorative scheme.

Special Cabinets

To meet an increasing demand for bronze and white metal fire hose cabinets, it is now possible to specify in either metal both our Elkhart or Hoosier construction cabinets. It is also possible to supply any of our cabinets with steel box having bronze, white metal, or aluminum door and trim. Where price of cabinet is an item to be considered, it is suggested that our standard construction hose cabinet be specified having any metal preferred for door and trim.

Grille Doors

We are occasionally called upon to furnish ornamental cabinets and your attention is directed to the cabinet at the left having aluminum door and trim, and an ornamental grille. In hotel lobbies, bank foyers and other conspicuous places where hose rack installations are required, a cabinet can be made to enhance the architectural beauty of its environment by similar ideas. If additional information along these lines is desired, we will be glad to submit suggestions.



about it to get
mar the cabinet

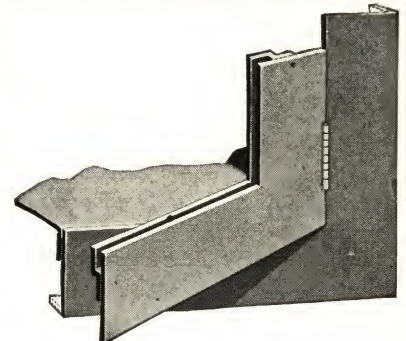
tural beauty of its
information along
submit suggestions.

HOOSIER CONSTRUCTION HOSE CABINETS

As a sturdy cabinet of simpler construction, we manufacture a hose cabinet having 16-gauge sheet steel box and 12-gauge door. One-piece door and trim. Cabinet door, by opening full 180 degrees, does not obstruct rapid removal of hose. No joints or rivets on front of cabinet, and with door fitting in rabbet flush with frame, this substantial cabinet is dustproof. Hardware of door consists of two nickel-plated five knuckle butt hinges on smaller cabinets, with three hinges on all cabinets exceeding 34 1/4 in. in height (inside dimension). A nickel-plated handle is standard on every cabinet of this type. This cabinet accommodates D.S.A. or plate glass panel.

Any of the styles shown on succeeding pages can be furnished in this construction. Made in same sizes as standard Elkhart Construction Cabinets, although special sizes of any dimensions can be furnished in this construction with out loss of time.

The standard finish is one heavy prime coat, inside and outside.



Types and Styles of Elkhart and Hoosier Cabinets



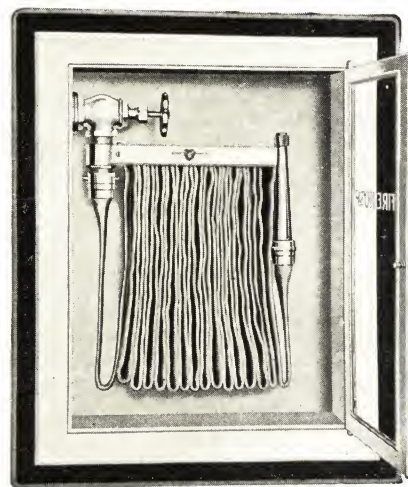
Institutional Cabinet

Institutional Cabinet

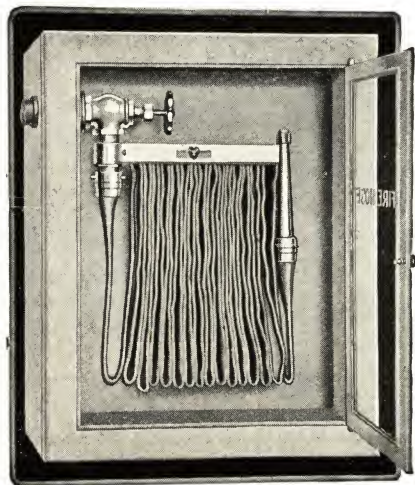
In certain institutions (insane asylums, prisons, etc.) it is best that the hose be made inaccessible except by janitor's key. For this purpose, our "Institutional" cabinet has been found eminently satisfactory by architectural authorities. A solid steel panel door, concealed hinges, and with Yale or Corbin lock effectively prevent play of hose except by attendant of building. Furnished in every size as hereinafter described. This type of cabinet is largely used in Government buildings.

Standard Cabinet

On the right is shown our standard cabinet recessed into the wall with only 1¼ in. trim projecting from the plaster. Ninety per cent of all installations being of recessed type, all of our standard units are so illustrated.



Standard Cabinet



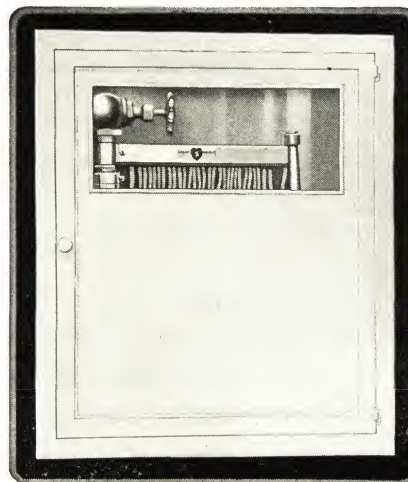
Surface Type

Surface Type

Any Elkhart cabinet can be made up in this style which is necessary where the depth of the wall is not sufficient to recess the cabinet in the usual way. Door is furnished with D.S.A. or plate glass panel or with duo panel as desired. Trim 1½ in. wide. For outside dimensions add 3¾ in. to inside measurements.

Duo-Panel

The duo panel door, Style "D," having steel section at the bottom and plate glass panel at top, not only affords protection against breakage of glass, but also conceals over half of the installation. Made for every size, it can be furnished on any type of cabinet at the architect's discretion.



Style "D"

ELKHART 2½-GALLON FIRE EXTINGUISHERS AND CABINETS

Extinguishers

Elkhart soda and acid and foam type extinguishers are labeled and listed by the Underwriters' Laboratories while the soda and acid extinguisher is also approved by the United States Department of Commerce Steamboat Inspection Service, and Factory Mutual Fire Insurance Companies.

Fire department insurance regulations require one Underwriters' approved 2½ gallon soda and acid extinguisher for every 2000 feet of floor space.

Extinguisher Cabinets

Adding greatly to the appearance of a building, extinguishers placed in cabinets also are more likely to be properly charged and serviced.

Made in either Elkhart or Hoosier construction, these extinguisher cabinets are provided with either D.S.A. or plate glass panel, or duo panel doors as shown. Cabin-

net hardware is identical to that installed on larger hose cabinets. All dimensions carefully worked out on adjacent line drawings.



Plate 950
Plate glass panel

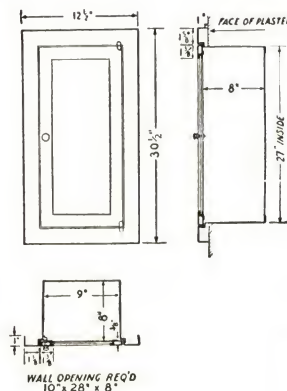
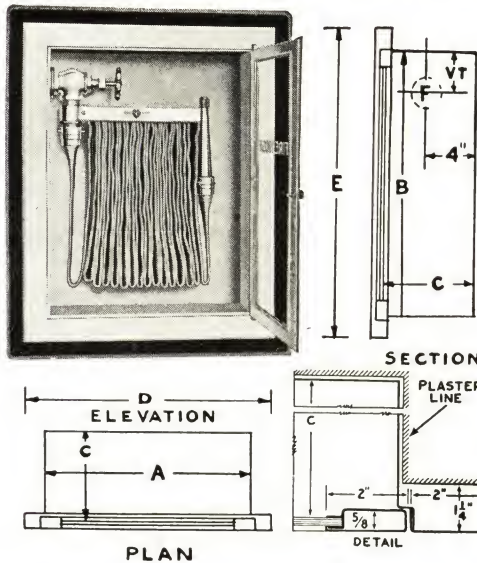


Plate 950
Style "D" panel

HOSE UNIT WITH ONE ANGLE VALVE (PLATE C-910)



For This Unit Specify

Elkhart standard cabinet, plate C-910.

Elkhart angle valve, plate No. 20 or plate 20-U.

Elkhart covered hose rack, plate No. 41 or 45, Style N with nipple.

The specified length of Underwriters' labeled linen hose of the proper size.

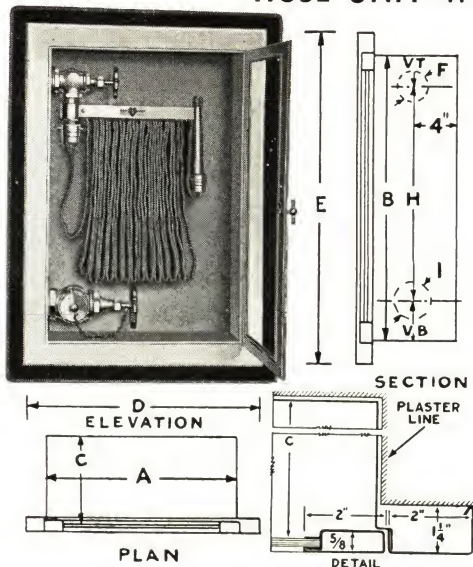
Elkhart polished brass expansion ring couplings and 12-in. plain nozzle.

Note: In buildings not over four stories high 1½-in. valve and 1½-in. hose are recommended. In buildings five or more stories high, a 2½-in. valve with local fire department thread should be installed to which 1½-in. linen hose can be attached by means of 2½x1½-in. reducing coupling, plate 335.

Important: For specification instructions, see page 1.

Hose capacity, ft.	Hose and valve size, in.	Glass, in.	Cabinet dimensions shown in diagram, in.						Valve opening (F), in.	Leave rough opening, in.	
			A	B	C	D	E	VT		Width	Height
50	1½, 2, 2½	18x28	20¾	30¾	7½	25½	35½	3½	2, 3, 3	21½	31½
75	1½, 2, 2½	20x30	22¾	32¾	7½	27½	37½	3½	2, 3, 3	23½	33½
100	1½, 2, 2½	22x32	24¾	34¾	7½	29½	39½	3½	2, 3, 3	25½	35½
125	1½, 2	22x36	24¾	38¾	7½	29½	43½	3½	2, 3	25½	39½

HOSE UNIT WITH TWO ANGLE VALVES (PLATE C-920)



For This Unit Specify

Elkhart cabinet, plate C-920.

Elkhart 1½-in. Angle Valve, plate No. 20 or plate No. 20-U.

Elkhart 2½-in. Angle Valve, plate No. 25 or plate No. 25-U with cap and chain.

Elkhart plate No. 45 or plate No. 41 hose rack as required by architect's specifications, Style N.

The specified length of 1½-in. Underwriter labeled linen hose.

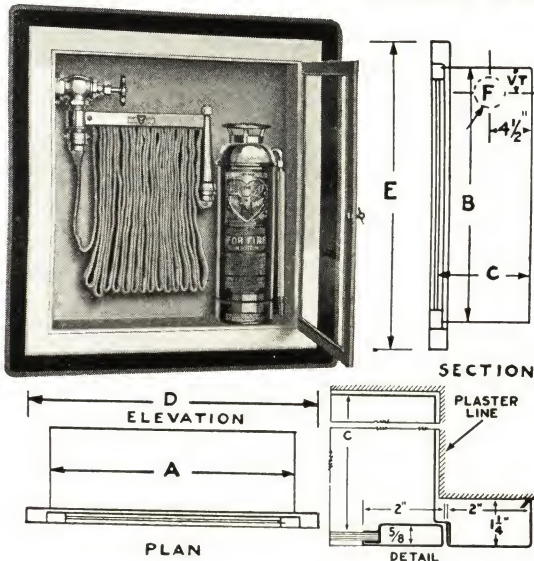
Elkhart 1½-in. expansion ring couplings.

Elkhart plain brass nozzle 1½ in. x 12 in. x ½ in.

Important: For specification instructions, see page 1.

Hose capacity, ft.	Hose and valve size, in.	Glass, in.	Cabinet dimensions shown in diagram, in.					Valve center, in.			Valve opening, in.		Leave rough opening, in.	
			A	B	C	D	E	VT	H	VB	F	I	Width	Height
50	1½, 2½	18x28	20¾	30¾	8½	25½	35½	3	22¾	5	2	3	21½	31½
75	1½, 2½	20x30	22¾	32¾	8½	27½	37½	3	24¾	5	2	3	23½	33½
100	1½, 2½	22x36	24¾	38¾	8½	29½	43½	3	30¾	5	2	3	25½	39½

HOSE UNIT WITH ONE ANGLE VALVE AND 2½-GAL. FIRE EXTINGUISHER (PLATE C-915)



For This Unit Specify

Elkhart cabinet C-915.

Elkhart angle valve, plate No. 20 or plate 20-U of the size required.

Elkhart Style N hose rack, plate No. 45 or plate 41 as required by the specifications.

The specified length of the Underwriters' labeled linen hose of the size required.

Elkhart expansion ring couplings and 12-in. nozzle.

Elkhart 2½-gal. extinguisher.

For complete description of Elkhart steel hose cabinets see preceding pages.

Important: For specification instructions, see page 1.

Hose capacity, ft.	Hose and valve size, in.	Glass, in.	Cabinet dimensions shown in diagram, in.					Valve opening (F), in.	Leave rough opening, in.	
			A	B	C	D	E		Width	Height
50	1¼, 1½	30x32	32¾	34¾	8½	37½	39½	6½	2	33½
75	2, 2½							5		
100								3½		35½

HOSE UNIT, CHICAGO STANDARD, WITH TWO ANGLE VALVES AND EQUIPMENT (PLATE C-901)

For This Unit Specify

Elkhart cabinet, plate C-901.

Elkhart 1½-in. approved angle valve, plate 20-U for 150 or 250 lb. pressure as required.

Note: If necessary to reduce pressure use 1x1½-in. Underwriters' valve instead of straight 1½-in.

Elkhart 2½-in. approved angle valve, plate 25-U, for 150 or 250 lb. pressure with local fire department thread, and with bronze cap and chain.

Elkhart semi-automatic Underwriters' approved hose rack, plate 41, Style N with 1½-in. nipple.

The specified length of 1½-in. Underwriters' labeled linen hose with Elkhart expansion ring couplings.

Elkhart 1½x12x½-in. plain nozzle with lugs.

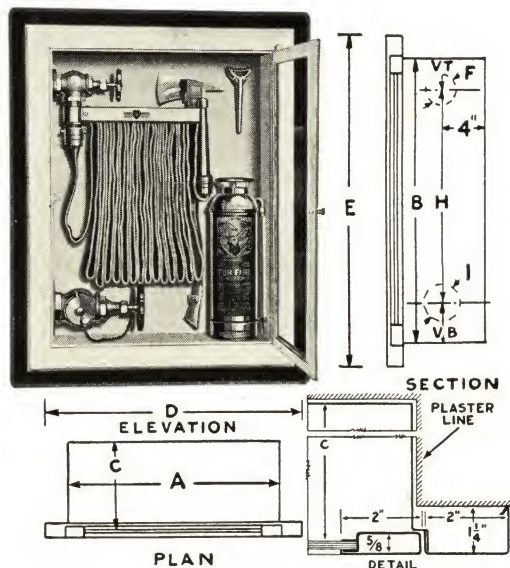
Elkhart 2½-gal. Underwriters' approved fire extinguisher complete with charge.

Fireman's pick head axe with Underwriters' bracket No. 3.

Elkhart taber spanner with Underwriters' bracket No. 4.

(For Same Unit with One Valve C-916)

Important: For specification instructions, see below and page 1.



Hose capacity, ft.	Hose and valve size, in.	Glass, in.	Cabinet dimensions shown in diagram, in.					Valve center, in.			Valve opening, in.		Leave rough opening, in.	
			A	B	C	D	E	VT	H	BV	F	I	Width	Height
50	1½	28x36	30¾	38¾	8½	35½	43½	3	30¾	5	2	3	31½	39½
75	2													
100	2½													

HOSE UNIT, WITH TWO GATE VALVES AND EQUIPMENT (PLATE C-900)

For This Unit Specify

Elkhart cabinet C-900.

Elkhart 2½-in. gate valve, standard weight or extra heavy with cap and chain.

Elkhart 2½-in. extended type escutcheon, plate 588.

Elkhart 1½-in. gate valve, standard weight or extra heavy with ¼-in. drip cock.

Elkhart 1½-in. combination wall bracket and escutcheon, plate 500, which fits back of valve and supports the rack.

Elkhart Underwriters' approved semi-automatic hose rack, plate 41.

Enough specified length of 1½-in. Underwriters' labeled linen hose with Elkhart expansion ring couplings.

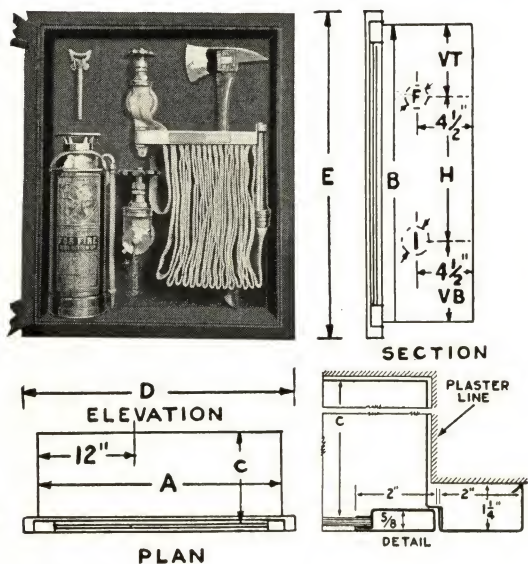
Elkhart 1½x12x½-in. plain nozzle with lugs.

Fireman's pick head axe with bracket, No. 3.

2½-in. taber spanner with bracket, No. 4.

Elkhart 2½-gal. Underwriters' approved fire extinguisher.

Important: For specification instructions, see below and page 1.



Hose capacity, ft.	Hose and valve size, in.	Glass, in.	Cabinet dimensions shown in diagram, in.					Valve center, in.			Valve opening, in.		Leave rough opening, in.	
			A	B	C	D	E	VT	H	VB	F	I	Width	Height
50	1½	28x36	30¾	38¾	8½	35½	43½	8	19¾	11	2	3	31½	39½
75	2													
100	2½													

ELKHART VALVES

Bronze Hose Gate Valves

Made of high grade bronze with weight and design closely following Underwriter's requirements.

Have stationary stem and adjustable double discs.

Reducing valves 1x1¼ in. or 1x1½ in. should be

used instead of straightway 1½-in. valves where pressure exceeds 80 pounds. Furnished with drip cock when so specified.

Chicago Pattern Valves

Largely used in connection with basket type racks and hose reels, for equipment of industrial plants, docks, etc.

Sizes: 1, 1¼, 1½, 2 and 2½ in.



Plate 88

GATE VALVE DIMENSIONS

Size Valve, in.	Regular Weight					Extra Heavy		
	1x1¼ or 1½	1¼	1½	2	2½	1x1½	1½	2½
Radius of swing, mounted, in.	5½	6½	7	8	9½	6½	7	9½
Radius of swing, demounted, in.	2¼	2½	3	3½	4½	2½	3	4½
Distance face to face, in.	2¼	3	3¼	3½	4½	3½	3¾	4¾
Distance with cap and chain, in.	3¾	4	4¼	4½	5½	4½	4¾	5¾
Diameter of hand wheel, in.	3	4	4	4½	5	3	4	5
Over-all Height, in.	6½	7½	8¾	9¾	11¾	7½	8¾	11¾

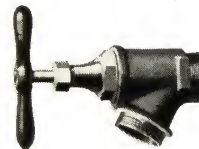


Plate 85

ELKHART VALVES FOR FIRE PROTECTION EQUIPMENT

Underwriter and New York Angle Valves

Approved by:

National Board of Fire
Underwriters

Board of Standards and
Appeals, New York, N. Y.

Body—Of special Underwriter alloy, our body has been found considerably heavier than competitive valves.

Stuffing Box—Ample space provided for adequate packing.

Stem—With heavy thread, our stem is made of a wear resisting alloy, analyzing 90% copper, 6.5% tin, 1.5% lead, 2% zinc.

Gland Follower—Beveled construction which insures firm pressure on packing.

Disc—Heavy Jenkin's type rubber discs used in all valves.

Joints—Accurately machined to allow repacking of valve when open and under pressure.

Wheel Handle—Arrow instantaneously indicates which way to turn wheel.



Plate 20U

Female

Plate 25U

Male



Plate 20

Female

Plate 25

Male

Elkhart Pattern Angle Valves

Made of high grade brass, specially designed for inside fire protection installations. All have full waterways and are furnished with renewable leather or rubber discs.

This valve is handsome in design and very durable. While always tight under pressure, it opens easily.

Standard weight valves are tested to 300 pounds. Extra heavy to 500 pounds pressure.

Standard finish is rough brass body, finished trimmings, iron wheel handle. Also furnished with body finished all over, and with nickel chromium, and dead black plating, and with milled edge brass wheel.

DIMENSIONS OF ELKHART AND UNDERWRITER PATTERN ANGLE VALVES

Type of Valve.....	Elkhart Plate 20, 25 Valves						Underwriters' Approved			
	Regular			Extra Heavy			Regular, 150 lbs		Ex. H'y, 250 lbs	
Weight	1 1/4 *	1 1/2 *	2	2 1/2	3	3 1/2	1 1/2 *	2 1/2	1 1/2 *	2 1/2
Size, in.	2 1/4	2 1/2	3	3 3/8	4	4 1/2	3 1/8	4	3 1/8	4 1/8
Radius of Swing, in.	2	2 1/4	2 1/2	3 1/4	2 1/2	3 3/4	2 3/4	3 1/2	2 3/4	3 3/4
Distance—Center to Face of Outlet, in.	3	3 1/4	3 1/2	4 1/4	3 1/2	4 3/4	3 3/4	4 1/2	3 3/4	4 3/4
Same—With Cap and Chain, in.	3 3/4	3 3/4	4 3/8	5 3/4	3 3/4	5 1/4	4 1/4	5 1/4	4 1/4	5 1/4
Diameter Hand Wheel, in.	7 1/4	7 1/2	9 1/4	11	8	13 1/4	10 1/8	12 1/4	10 1/8	13 1/2
Height, Overall, in.										

*Note: 1x1 1/4 and 1x1 1/2-in. Reducing Valves approximately same dimensions.

STANDPIPE AND HYDRANT UNITS

All Types—Siamese Connections

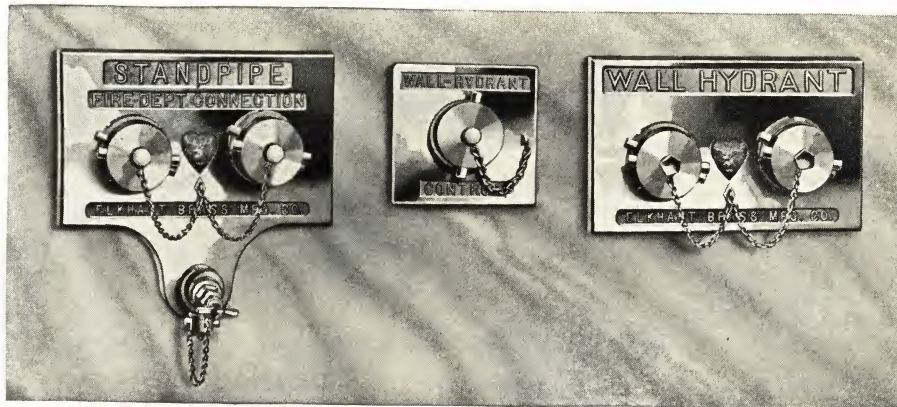


Plate 165

Plate 164

Plate 163

Plates 163, 164, 165 and 166

The three connections illustrated above comprise a complete private high pressure fire department unit. The standpipe connection shown at the left is connected to the fire department pumper which increases pressure in the hose outlet standpipe. The wall hydrant, along with the wall hydrant control, functions exactly as does a city hydrant connection, getting its pressure from Underwriter pumps in the basement. The hydrant control is merely an elongated stem of a 4-in. gate valve inside the building which automatically operates the basement fire pumps. In short, the standpipe connection serves to get water under pressure into a building, while the wall hydrant connection takes water under pressure out of the building. This unit is, as clearly recognized by engineers, an indispensable feature of modern fire fighting.

We will be glad to send a diagram of a typical installation upon request.

Flush type siamese and hydrant connections take a minimum of space on a crowded sidewalk. The body is built into the wall during construction. The wall plate is attached when desired by simply screwing in the bronze inlet nipples to which the independent clapper valves are attached.

This feature of construction is very important as it eliminates a serious drawback of many flush type siamese connections. Should any trouble develop, the clapper valves can be easily removed for repairs. Where the clappers are permanently attached to body of siamese, they are inaccessible as the body cannot easily be removed after it is once built in.

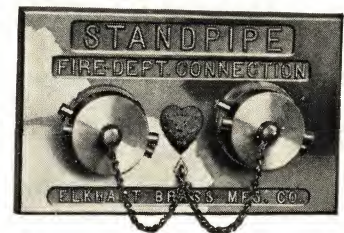
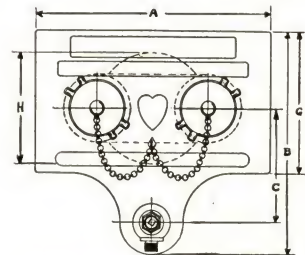
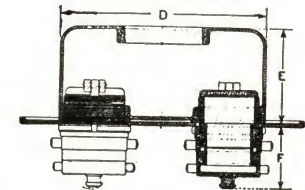


Plate 166

Same design as Plate 165 but without sill cock



DIMENSIONS, PLATES 163, 165

AND 166

4x2 1/2 x 2 1/2 In. Size

A	B	C	D	E	F	*G	H
16	15	7 3/8	12	6 1/4	4 1/4	9 1/2	5 1/2
6x2 1/2 x 2 1/2 In. Size							
16	15	7 3/8	12	6 1/2	4 1/4	9 1/2	7 1/2

*Height of body in wall.

Both can be furnished with pipe coming in from bottom, instead of back of body. Blue prints on request.

Combination Wall Plate Siamese with Sill Cock (Plate 155)

Made of highly polished bronze. Fitted with two 2½-in. fire department inlets and 4 or 6-in. outlet. Has double clapper valves, plugs and chains, also one ¾ or 1-in. outlet at bottom for sprinkling hose. Complete with hose cap, chain and key.



Plate 155
Siamese Outlet

Plate 154
Valve Control

Plate 153
Wall Hydrant

DIMENSIONS

Greatest length.....	19 in.
Greatest width.....	12½ in.
Stands out from wall.....	10½ in.
Center of pipe opening to center of sill cock—	
With 4-in. pipe.....	9 5/8 in.
With 6-in. pipe.....	10 in.



Plate 156

Wall Plate Siamese (Plate 156)

Same siamese as plate 155 without the sill cock.

DIMENSIONS

Greatest height.....	11 1/8 in.
Greatest width.....	12½ in.
Stands out from wall.....	10½ in.

Boston and Philadelphia Siamese

This siamese meets all requirements and has been fully approved by city authorities of Boston. Made of bronze, straight pattern, compact design requiring minimum of space. Has two or three 2½-in. inlets as required, each with automatic clapper valve.



Plate 167

This siamese is also acceptable to Philadelphia city authorities, and is largely used there, with 3-in. screw thread on center inlet and 2½-in. Jones connections on the two outside inlets.

Standard sizes are:
2½x2½x4-in.
2½x2½x2½x6-in.

New York City Siamese

Bearing the calendar number of the New York Board of Standards and Appeals, this siamese with independent gravity clapper valves, is of a very rugged construction throughout. Furnished with either galvanized iron plugs and chains or easy off swivel caps. Round or rectangular escutcheon according to architect's option.

Standard sizes are:
3x3x4-in.
3x3x5-in.
3x3x6-in.



Plate 9

Typical Sprinkler Siamese

Used by many sprinkler companies, this combination siamese (Plate 12) with escutcheon and easy off swivel caps is made with either bronze body, trim, and escutcheon or red enameled iron body with bronze swivels. Has two independent gravity clapper valves.

Standard sizes are:

2½x2½x4-in.
2½x2½x6-in.



Plate 12

Roof Manifolds

Completing the fire line standpipe, this roof manifold equipped with Elkhart Underwriters' approved, Plate 25U 2½-in. bronze angle valve affords fire department access to water on roof. Valves are threaded to local fire department threads, while working pressure of valve is determined by amount to which they are subjected. Siamese body is made of cast bronze. Valves equipped with brass or iron caps and chains.

Standard sizes are:

2½x2½x4-in.
2½x2½x2½x6-in.
2½x2½x2½x8-in.

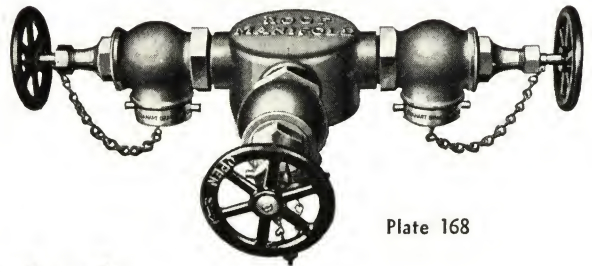


Plate 168



Plate 15

Sidewalk Siamese

Plate 15 shows a standpipe connection with 90 degree siamese used where the inlet pipe comes through the sidewalk. The complete connection consists of a polished brass sleeve to cover the pipe, heavy brass escutcheon and polished brass siamese No. 10 with caps and chains to fit 3, 4 or 6-in. standpipe with 2½-in. inlets and has two clapper valves. Contractor's name can be put in the recess in the escutcheon. Length of sleeve 18 ins. unless otherwise ordered.

Combination Air Inlet and Siamese

As an example of special casting work which we are often called upon to furnish, a combination fresh air inlet and siamese connection is here shown. In this case, according to specifications, a special aluminum alloy was used. Now available as a standard item, it is designed to meet all building code regulations.

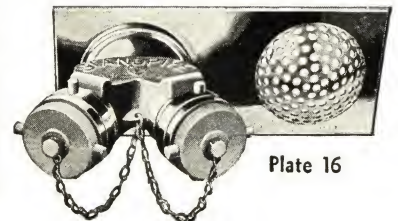


Plate 16

Automatic Ball Drip

In some cities the regulations require a 1/2-in. automatic ball drip between inside check valve and siamese.

It closes against pressure, but automatically opens when pressure is removed, draining this portion of the pipe, and thus prevents freezing.



Plate 501

Our Plate 502, straight type, is approved by the Board of Standards and Appeals for use in New York City. Similar in appearance to Plate 501, it is required in nearly all eastern seaboard municipalities.

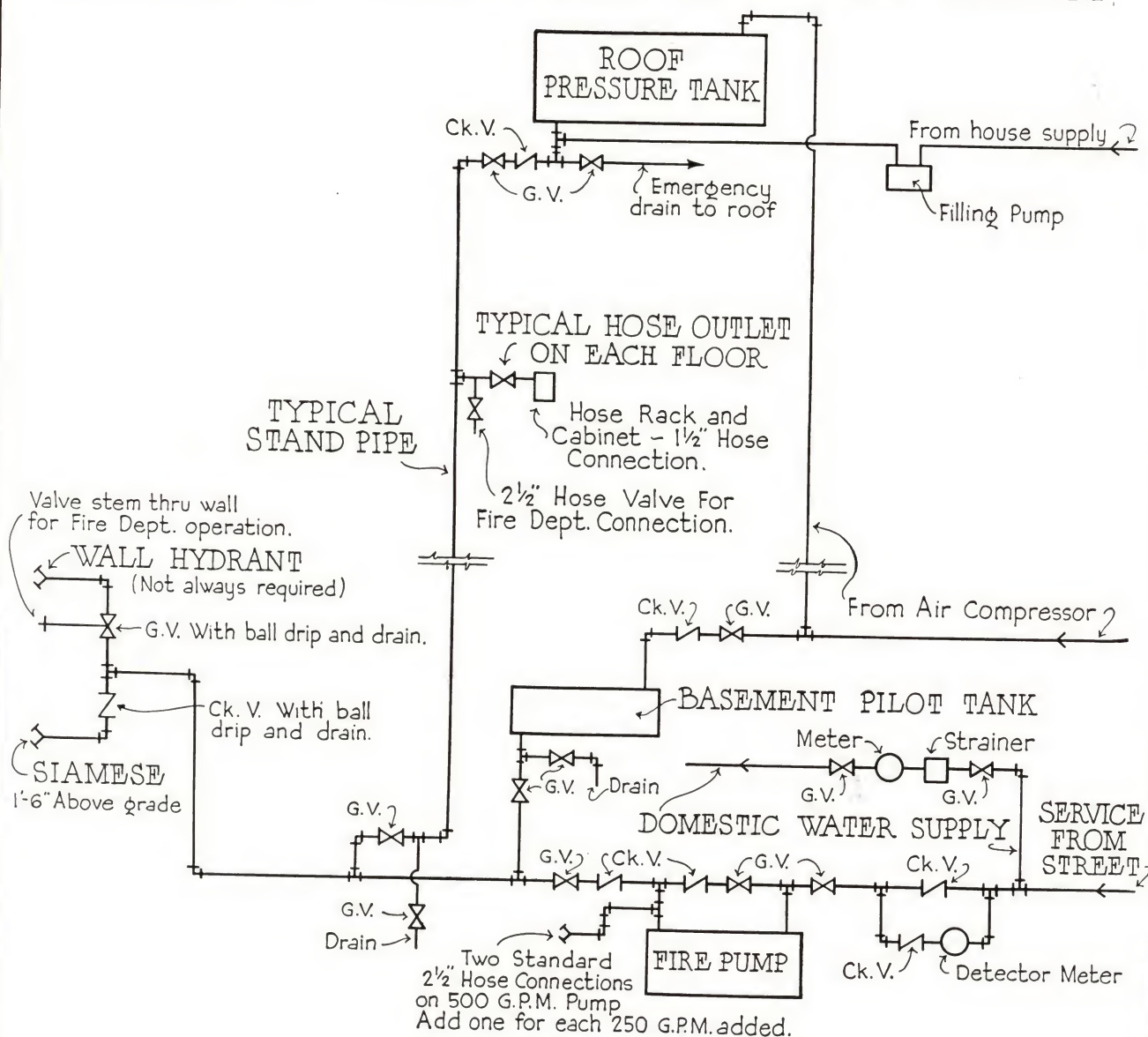
Standpipe Plates



Size: 11½x4½ in.

Plates similar to those shown can be furnished with special lettering in any specified size.

Made of either bronze or red enameled iron, these individual escutcheons are often used to more clearly designate different wall connections.



Typical Fire Protective System

